

1 34014/PBH/B600' (BP 1214)

## TEMPERATURE COMPENSATION FOR INTERNAL INDUCTOR RESISTANCE

### 5 CROSS-REFERENCE TO RELATED APPLICATIONS

*See attached sheet*  
*is a continuation in part of serial num*  
This application claims the benefit of U.S. Provisional Patent Application Nos. 60/108,459, 60/108,209, 60/108,210 filed November 12, 1998; U.S. Provisional Application No. 60/117,609 filed January 28, 1999; U.S. Provisional Application Nos. 60/136,115 and 60/136,116 filed May 26, 1999; U.S. Provisional Application No. 60/136,654 filed May 27, 1999; and U.S. Provisional Application No. 60/159,726 filed October 15, 1999; the contents of which are hereby incorporated by reference.

### 15 FIELD OF THE INVENTION

This application relates generally to receiver circuits and, in particular to a CATV tuner with a frequency plan and architecture that allows the entire receiver, including the filters, to be integrated onto a single integrated circuit.

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### BACKGROUND OF THE INVENTION

Radio receivers, or tuners, are widely used in applications requiring the reception of electromagnetic energy. Applications can include broadcast receivers such as radio and television, set top boxes for cable television, receivers in local area networks, test and measurement equipment, radar receivers, air traffic control receivers, and microwave communication links among others. Transmission of the electromagnetic energy may be over a transmission line or by electromagnetic radio waves.

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The design of a receiver is one of the most complex design tasks in electrical engineering. In the current state of the art, there are many design criteria that must be considered to produce a working radio receiver. Tradeoffs in the design's performance are often utilized to achieve a given objective.

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There are a multitude of performance characteristics that must

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This application is a continuation-in-part of serial number 09/439,101 filed November 12, 1999,

which claims benefit of 60/108,459 filed November 12, 1998,  
and claims benefit of serial number 60/108,209 filed November 12, 1998  
and claims benefit of serial number 60/108,210 filed November 12, 1998  
and claims benefit of serial number 60/117,609 filed January 28, 1999  
and claims benefit of serial number 60/136,115 filed May 26, 1999  
and claims benefit of serial number 60/136,116 filed May 26, 1999  
and claims benefit of serial number 60/136,654 filed May 27, 1999  
and claims benefit of serial number of 60/159,726 filed November 15, 1999  
which claims benefit of serial number 60/113,003 filed December 18, 1998  
which claims benefit of serial number 60/117,322 filed January 26, 1999  
which claims benefit of serial number 60/122,754 filed February 25, 1999